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| NOGRR Number | [162](http://www.ercot.com/mktrules/issues/NOGRR162) | NOGRR Title | Process for Resolving Real-Time Data Discrepancies |
| Date of Decision | November 3, 2016 |
| Action | Recommended Approval |
| Timeline  | Normal |
| Proposed Effective Date | January 1, 2017 |
| Priority and Rank Assigned | Not applicable |
| Guide Sections Requiring Revision  | 7.3.3, Data from QSEs and TSPs to ERCOT7.3.4, Data Quality and Resolving Real-Time Data Conflicts (New)7.3.4, TSP and QSE Telemetry Restoration7.3.5, General Telemetry Performance Criterion |
| Related Documents Requiring Revision/Revision Requests | None |
| Revision Description | This Nodal Operating Guide Revision Request (NOGRR) establishes a process for resolving Real-Time data discrepancies that affect ERCOT’s Network Security Analysis (NSA). |
| Reason for Revision |  Addresses current operational issues. Meets Strategic goals (tied to the [ERCOT Strategic Plan](http://www.ercot.com/content/news/presentations/2013/ERCOT%20Strat%20Plan%20FINAL%20112213.pdf) or directed by the ERCOT Board). Market efficiencies or enhancements Administrative Regulatory requirements Other: (explain)*(please select all that apply)* |
| Business Case | North American Electric Reliability Corporation (NERC) Reliability Standard IRO-010-2, Reliability Coordinator Data Specification and Collection, requires ERCOT and applicable Entities to have a mutually agreeable process for resolving Real-Time data conflicts. |
| OWG Decision | On 7/21/16, the Operations Working Group (OWG) was in consensus to table NOGRR162.On 8/18/16, OWG was in consensus to continue to table NOGRR162.On 9/22/16, OWG was in consensus to recommend approval of NOGRR162 as amended by the 9/2/16 Garland comments as revised by OWG.On 10/20/16, OWG was in consensus to endorse and forward to ROS the 9/22/16 OWG Report and Impact Analysis for NOGRR162.  |
| Summary of OWG Discussion | On 7/21/16, participants discussed NERC Reliability Standard IRO-010-2; whether the discrepancy resolution window might be expanded to 48 Business Hours; and whether language could be developed to address third-party response timelines.On 8/18/16, participants reviewed the 8/11/16 ERCOT comments; discussed different timeframes for manually updating data; and requested a WebEx be scheduled to further discuss the language before the next OWG meeting. On 9/22/16, participants reviewed the 9/2/16 Garland comments and offered additional clarifications.On 10/20/16, participants reviewed the 9/22/16 OWG Report and Impact Analysis for NOGRR162. |
| ROS Decision | On 11/3/16, ROS unanimously voted to recommend approval of NOGRR162 as recommended by OWG in the 10/20/16 OWG Report. All Market Segments were present for the vote. |
| Summary of ROS Discussion | On 11/3/16, participants discussed the proposed requirement for the Qualified Scheduling Entity (QSE) or Transmission Operator (TO) to coordinate with ERCOT and verbally agree to the best assumed data value(s) should a Real-Time telemetry data issue not be resolvable within 10 minutes of notification. |

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| Market Segment | Not applicable |

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| **Comments Received** |
| Comment Author | **Comment Summary** |
| Luminant 072916 | Proposed data replacement or a specific resolution plan within ten minutes and suggested revising original language to allow 30 minutes for data replacement |
| ERCOT 081116 | Restored paragraphs (4) and (5) in Section 7.3.3 to delineate expectations relative to common telemetry data issues not affecting ERCOT NSA and suggested edits to clarify Entities involved and to structure similar to the proposed Section 7.3.4 without the ten minute requirements |
| CenterPoint Energy 081516 | Recommended ERCOT either meet with the Network Data Support Working Group (NDSWG) or host a workshop to first review the State Estimator Standards and Telemetry Standards |
| Garland 090216 | Recommended additional revisions and restored Section 7.3.5 |

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| Market Rules Notes |

Please note that the baseline language in Section 7.3.3 has been updated to reflect the 11/1/16 incorporation of the following NOGRR(s) into the Nodal Operating Guide:

* NOGRR154, Alignment with NPRR755 and Requirements for ERCOT WAN Installation and Exchange of Resource-Specific XML Data

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| Proposed Guide Language Revision |

### 7.3.3 Data from QSEs and TSPs to ERCOT

(1) Each TSP and QSE shall provide telemetered measurements on modeled Transmission Elements as required by the Protocols and the ERCOT Nodal ICCP Communications Handbook.

(2) QSEs and TSPs shall provide Real-Time monitoring of power system quantities to ERCOT as defined in the Protocols and the ERCOT Nodal ICCP Communications Handbook. ERCOT shall work with TSPs and QSEs to determine the required data using the methodology presented in the Protocols. Transmission Element status and analog measurements that the TSPs and QSEs define in the Network Operations Model shall, at a minimum, be provided to ERCOT. Ultimately, it is the responsibility of the TSPs and QSEs to provide all data requested by ERCOT.

(3) Real-Time telemetry data from QSEs used to supply power or Ancillary Services shall be integrated by ERCOT and checked against settlement meter values on a monthly basis.

(4) Each QSE and TO shall notify ERCOT as soon as practicable when there are known telemetry data issues (telemetry data will not be available or is unreliable for operational purposes). Each QSE or TO shall address the known telemetry data issue with either a correction of the telemetry data as soon as practicable, or a manual data replacement, if available, as soon as practicable. The report, as outlined in Section 9.2.2, Real-Time Data Monitor, will contain unavailability data associated with Planned Outages of RTUs.

(5) If the QSE or TO cannot resolve the telemetry data issue within two Business Days, it shall provide an estimated time of resolution. Each QSE and TO shall notify ERCOT as soon as practicable when telemetry data issue is resolved.

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| [NOGRR154: Replace Section 7.3.3 above with the following upon system implementation of NPRR755:]***7.3.3 Data from WAN Participants to ERCOT***(1) Each WAN Participant shall provide telemetered measurements over the ERCOT WAN on modeled Transmission Elements as required by the Protocols and the ERCOT Nodal ICCP Communications Handbook. (2) WAN Participants shall provide Real-Time monitoring of power system quantities to ERCOT as defined in the Protocols and the ERCOT Nodal ICCP Communications Handbook. ERCOT shall work with WAN Participants to determine the required data using the methodology presented in the Protocols. Transmission Element status and analog measurements that the TSPs and QSEs define in the Network Operations Model shall, at a minimum, be provided to ERCOT. Ultimately, it is the responsibility of the TSPs and QSEs to provide all data requested by ERCOT. (3) Real-Time telemetry data from QSEs used to supply power or Ancillary Services shall be integrated by ERCOT and checked against settlement meter values on a monthly basis.(4) Each WAN Participant shall notify ERCOT as soon as practicable when telemetry will not be available or is unreliable for operational purposes. The report, as outlined in Section 9.2.2, Real-Time Data Monitor, will contain unavailability data associated with Planned Outages of RTUs.(5) Each WAN Participant shall notify ERCOT as soon as practicable when telemetry is returned to normal state. |

***7.3.4 Resolving Real-Time Data Issues that affect ERCOT Network Security Analysis***

(1) Real-Time telemetry data issues that affect ERCOT’s Network Security Analysis (NSA) are issues that cause invalid State Estimator solutions.

(2) Manually replaced telemetry data is data entered by a QSE or TO on their systems that is transmitted to ERCOT via ICCP in place of the normal points experiencing an issue.

(3) ERCOT shall notify the QSE or TO responsible for the telemetry data when a Real-Time telemetry data issue affects ERCOT Network Security Analysis (NSA). ERCOT shall request each QSE or TO address the Real-Time telemetry data issue with either manually replaced telemetry data if secondary sources are available or correction of the telemetry data issue as soon as practicable. If the QSE or TO cannot address the issue within 10 minutes of notification, the QSE or TO shall coordinate with ERCOT to verbally agree to the best assumed data value(s). The QSE or TO shall use verbally agreed data to manually replace the data point to reflect the best assumed data value(s). The QSE or TO and ERCOT shall review the manually replaced telemetry data; the QSE or TO shall update the manually replaced telemetry data to reflect the best assumed data value(s) until the Real-Time data issue is resolved.

(4) If the QSE or TO cannot resolve the Real-Time telemetry data issue that is affecting ERCOT NSA within two Business Days, it shall provide an estimated time of resolution. Each QSE or TO shall notify ERCOT when the Real-Time telemetry data issue that was affecting ERCOT NSA is resolved.

***7.3.5 TSP and QSE Telemetry Restoration***

Real-Time telemetry data shall be restored using criteria and procedures as established by the Telemetry Standards.

***7.3.6 General Telemetry Performance Criterion***

All Real-Time telemetry as required by the Protocols shall meet the State Estimator Standards and the Telemetry Standards.